CLAIMS

- 1. An aqueous colloidal gold solution comprising an aqueous medium and
 - (a) gold particles in colloidal form,
 - (b) a compound having a polar tertiary amino group conjugated via a hydrophobic aromatic residue with a weaker alkaline group which can also be a part of the aromatic residue, and
 - (c) a stabilizer comprising a mercapto group (-SH) and an acidic group.
- 2. An aqueous colloidal gold solution according to claim 1, wherein the colloidal gold particles have an average diameter of 1 to 20 nm.
- 3. An aqueous colloidal gold solution according to claim 1 or 2, wherein the aromatic residue of the compound (b) is a N-heteroaromatic residue with the nitrogen atom as weaker alkaline group.
- 4. An aqueous colloidal gold solution according to claim 3, wherein the heteroaromatic residue is a pyridine residue.
- 5. An aqueous colloidal gold solution according to claims 1, 3 or $\hat{4}$, wherein the compound (b) is 4-dimethylamino-pyridine (DMAP).
- 6. An aqueous colloidal gold solution according to one of the previous claims, wherein the stabilizer (c) comprises a sulfonic acid group $(-SO_3^-)$.
- 7. An aqueous colloidal gold solution according to claim 6, wherein the stabilizer (c) is a mercapto- (C_{1-5}) alkylsulfonic acid salt.

- 8. An aqueous colloidai gold solution according to claim 7, wherein the stabilizer (c) is a 2-mercaptoethane sulfonic acid salt.
- 9. An aqueous colloidal gold solution according to any one of the previous claims, comprising furthermore, as evaporation blocker,
- (d) a polar organic compound with a vicinal dihydroxy group or an oligomer thereof.
- 10. An aqueous colloidal gold solution according to claim 9, wherein the compound (d) is ethylene glycol.
- 11. An aqueous colloidal gold solution according to any one of the previous claims, having the following composition:
 - (a) 6 to 10 % by weight of the gold nanoparticles,
 - (b) 0.1 to 3 % by weight of the compound having a tertiary amino group,
 - (c) 0.2 to 0.6 % by weight of the stabilizer, and optionally
 - (d) 1 to 8 % by weight of the evaporation blocker, each based on the total weight of the aqueous composition.
- 12. An aqueous colloidal gold solution according to any one of the previous claims, having a pH of 8 to 11.
- 13. Ink or printer cartridges containing the colloidal gold solution of claims 1 to 12.
- 14. Printer cartridge according to claim 13, which is an ink jet printer cartridge.
- 15. A gold-coated or -impregnated substrate obtainable by application of the colloidal gold solution of any of claims 1-12 onto a substrate or by impregnation of the substrate and evaporation of the aqueous medium.

- 16. A gold-coated substrate according to claim 15, which is a paper.
- 17. A gold-impregnated substrate according to claim 15, which is a catalyst particle.
- 18. A gold-coated substrate according to claim 15 which is a circuit board.